SHAPOVAL, A.G., kand.sel'skokhozyaystvennykh nauk; KHUDENKO, M.N.

Two crops from irrigated areas. Zemledelie 24 no.6:34-36 Je '62. (MIRA 15:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut oroshayemogo zemledeliya.

(Ukraine-Corn (Maize)-Irrigation)

# One of the best restaurants in the Virgin Territory. Obshchestv. pit. no.8:7-8 Ag '61. (::IRA 14:10) 1. Starshiy ekonomist Upravleniya obshchestvennogo pitaniya TSelinnogo krayevogo upravleniya sovkhozov. (Virgin Territory—Restaurants, lunchrocus, etc.)

sov/126-7-4-26/26

AUTHOR:

Khudenskiy, Yu.K.

TITLE:

Application of a Conical Collimator for Scanning

Polished Sections

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 7, Nr 4,

pp 639-640 (USSR)

ABSTRACT:

Radiographic investigations of polished sections produced by addition of radioactive isotopes is one of

the most widely used methods of studying inclusions

(Ref 1). However, preparation of radiographs of specimens with low specific activities as regards soft  $\beta$  and  $\gamma$ -radiations is very difficult. These difficulties lead to the necessity of using various types of scanning equipment with high sensitivity sensing devices, for instance, collimated scintillation counters (Ref 2). The work described in this paper was carried out for

elucidating the advantages of a conical "focussing" collimator. It was assumed that use of a conical collimator, which would permit increasing the aperture of the sensing device, will bring about an increase in the spatial selectivity of the instrument. The authors

Card 1/4 used a FEU-S scintillation counter with a NaI(T1) crystal

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Application of a Conical Collimator for Scanning Polished Sections

and a single channel analyser. The radioactive  ${
m Co}^{60}$ preparations, by means of which the collimator investigations were made, were deposited on to a zapon film which was clamped into a holder. The holder was moved by means of a micrometer thread. For hard radiations the collimator was made of lead, for soft radiations it was made of a plastic. The changes in the speed of counting were investigated as a function of the coordinates of the source along the collimator axis and in the plane perpendicular to that axis. The measurements were carried out for various discrimination levels. graph, Fig la, shows the dependence of the counting speed during displacement of the source in a plane perpendicular to the axis of the collimator, the assumed focus of the collimator being in this plane. The curves, Fig 2, indicate the changes in the counting speed during displacement of the source along the collimator axis (for low as well as for high discrimination levels). Both relations were obtained for a Co<sup>60</sup> radiation source of 0.9 mm diameter with an activity of 0.05 m Curie and a lead collimator with

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Application of a Conical Collimator for Scanning Polished Sections

dimensions of the active part as given in Fig 1b. Analysis of the obtained data allows the following conclusions: (a) Due to increasing the aperture of the sensing device, the accuracy of detecting radiation sources in a plane perpendicular to the axis of the collimator is higher for a conical collimator than for a cylindrical one for an equal degree of diaphragming. (b) The accuracy of detecting radiation sources along the axis of the collimator in the case of comparable dimensions of the source and of the input opening of the collimator is low, since the real focal distance of the collimator is a function of the source dimensions. (c) The accuracy of detecting radiation sources increases with increasing amplitude discrimination of the counters even in the case of providing the internal cone of the collimator with a certain number of ribs along its generatrix. (d) Conical Collimators made of various materials can be applied for determining clearly the planar topography of  $\beta$  and  $\gamma$  active micro-regions during scanning of polished sections. Acknowledgments are

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SOV/126-7-4-26/26

Application of a Conical Collimator for Scanning Polished Sections

expressed to N.M.Napol'skiy who participated in producing the test equipment. There are 2 figures and

2 Soviet references.

[n.b. This is a complete translation]

ASSOCIATION: Ural'skiy politekhnicheskiy institut imeni S.M.Kirova (Ural Polytechnical Institute imeni S.M.Kirov)

SUBMITTED: June 12, 1958

Card 4/4

S/120/62/000/001/011/061 E032/E514

AUTHORS: Tsirlin, Yu.A., Shvets, V.A. and Khudenskiy, Yu.K.

TITLE: Determination of the resolution of scintillation

counters

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 56-57

TEXT: The resolution of a scintillation counter with sodium iodide or caesium iodide phosphors is usually determined either as the half-width of the Cs $^{137}$  photo-peak divided by the corresponding channel number, or by comparing the two Co $^{0}$  peaks at 1.17 and 1.33 MeV with the depth of the minimum between them. There is no published method whereby the results of these two determinations can be compared. The authors have found a relation between the ratio of the 1.33 MeV peak to the ordinate of the minimum of the pulse height distribution curve and the resolution  $R_{\text{Co}}$  for 1.33 MeV gamma-rays. In the calculation it was assumed that the photoelectric cross-section in this energy range is inversely proportional to  $E^{1.35}$ , that the form of the photo-peak is Gaussian and that the resolution of the scintillation

Card 1/2

Determination of the resolution ... S/120/62/000/001/011/061 E032/E514

counter is inversely proportional to  $E^{0.5}$ . It is shown that the relation between the above ratio and the resolution is in fact

 $\xi = 0.44 \exp{(115/R^2)}$ .

This result is in good agreement with the reported experimental values for crystals with linear dimensions in excess of 1 cm. There is 1 figure.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov, stsintillyatsionnykh materialov i osobo chistykh khimicheskikh veshchestv (All Union Scientific Research Institute of Monocrystals, Scintillator Materials and Extrapure Chemical Substances)

SUBMITTED:

May 26, 1961

Card 2/2

### CIA-RDP86-00513R000722420002-2 "APPROVED FOR RELEASE: 03/13/2001

ACC NR: AT6034037

SOURCE CODE: UR/0000/66/000/000/0147/0149

AUTHOR: Voyevoda, L. V.; Oksyuk, A. A.; Sidorova, R. P.; Ishchenko, I. K.;

Khudenskiy, Yu. K.; Tishchenko, V. G. The state of the s

ORG: none

TITLE: Correlation of the structure of the first coordination sphere with emission spectra of europium benzoylacetonate

SOURCE: Simpozium po spektroskopii kristallov, soderzhashchikh redkozemel'nyye elementy i elementy gruppy zheleza. Moscow, 1965. Spektroskopiya kristallov (Spectroscopy of crystals); materialy simpoziuma. Moscow, Izd-vo Nauka, 1966, 147-149

TOPIC TAGS: curopium complex, organocuropium compound, luminescence spectra, IR spectrum, chelation, crystal symmetry, absorption spectrum, emission spectrum, benzene, europium compound, acetone, complex molecule ABSTRACT: Infrared absorption spectra of the microcrystalline EuB<sub>3</sub>P, EuB<sub>4</sub>HP, and EuB3H(NH3) complexes, where B is benzoylacetone and P is piperidine, were measured at 77% to clear up the controversy about the degree of distortion of the first coordination sphere of the Eu3+ ion. This study was prompted by the reported difference in the luminescence spectra of Eu3+ in benzoylacetonate complexes with different bases and by the earlier failure to correlate the emission spectra with the symmetry of the ligand field. A difference in the luminescnece spectra of the

Card 1/2

ACC NR: AT6034037

above Eu chelates was noted, even though they contained the same base, and was attributed to different structural modifications of the europhum benzoylacetonate, or the shape of the infrared spectra of the complexes studied confirmed the assumption of a continuous decrease in distortion of the coordination oxygen octahedron in the process of formation of the tetraligand  $\text{EuB}_4\text{HP}$ . The  $\text{EuB}_3\text{P}$  complex is formed first in the process of synthesis and displays infrared spectrum identical with that of  $\text{EuB}_3\text{H}(\text{NH}_3)$ . Depression of the spectral line corresponding to  $^5\text{D}_0$ — $^7\text{F}_0$  transition in  $\text{EuB}_4\text{HP}$  as compared to  $\text{EuB}_3\text{P}$  indicated a decrease in distortion of the coordination octahedron and was accompanied by an increase in relative luminescence yield. The spectral charactersitics of  $\text{EuB}_4\text{HP}$  and  $\text{EuB}_4\text{HM}$ , where M is morpholine, are, therefore, correlated with the increase in symmetry of the first coordination sphere in comparison with  $\text{EuB}_3\text{P}$  or  $\text{EuB}_3\text{H}(\text{NH}_3)$ . Orig. art. has: 2 figures and 1 table.

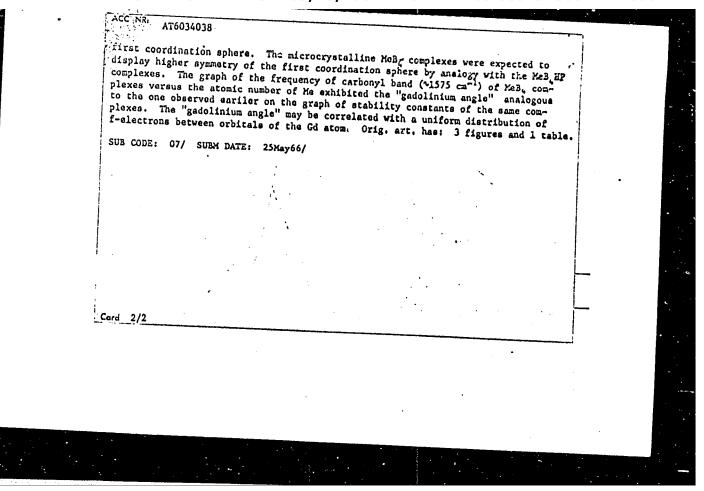
SUB CODE: 07/ SUBM DATE: 25Mar66/

Card 2/2

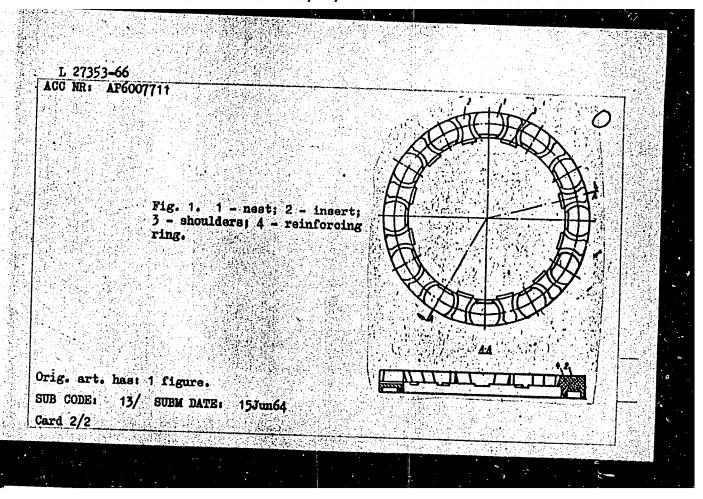
### "APPROVED FOR RELEASE: 03/13/2001

# CIA-RDP86-00513R000722420002-2

SOURCE CODE: UR/0000/66/000/000/0150/0152 ACC NR: AT6034038 AUTHOR: Oksyuk, A. A.; Voyavoda, L. V.; Sidorova, R. P.; Ishchenko, I. K.; Tishchenko, V. G.; Khudenskiy, Yu. K. ORG: none TITLE: Coordination symmetry of the emitting ion in various rare-earth element chelates SOURCE: Simpozium po spektroskopii kristallov, soderzhashchikh redkozemel'nyye elementy i elementy gruppy zheleza. Moscow, 1965. Spektroskopiya kristallov (Spectroscopy of crystals); materialy simpoziuma. Hoscow, Izd-vo Nauka, 1966, 150-152 TOPIC TAGS: rare earth complex, organoeuropium compound, organogadolinium compound, organoterbium compound, organodysprosium compound, organoholmium compound, chelate, IR spectrum, crystal symmetry, absorption spectrum, luminescence spectrum, IR spectrum, crystal symmetr benzene, acetone, complex molecule, rare earth element ABSTRACT: A study of the infrared absorption spectra of the rare-earth element ABSTRACT: A study of the intrared absorption spectra of the fate-earth elements benzoylacetonates [same source, p. 147-149] was extended to the microcrystalline protonized modifications MeB<sub>4</sub>, where Me = Eu, Gd, Tb, Dy, or Ho and B = benzoylace-tone. The purpose of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the fate-earth dependent of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of splitting of the study was to evaluate the effect of energy levels in the ligand field on the frequency shift of the infrared absorption bands of carbonyl groups (1500—1610 cm<sup>-1</sup> region). The frequency shift in this region, as in the 500—900 cm<sup>-1</sup> region, reflects a decrease in distortion of the Card 1/2 • • .



	(A)	SOURCE CODE:	UR/0413/66/000/	/003/0105/0105	
AUTHORS: Baryshev,	V. F.; Shlayen,	B. M.; Blankman, M.	A.; Khudeyev,	s. v. 74	
RG: none	V.			2	
ITLE: Split rolle:	bearing separat	or. Class 47, No.	178617		
・10 - 12 - 144、2011 に、 「2011 というこうなかればればしている		e obraztsy, tovarny		4066 400	
OPÍC TAGS: antifri	ction bearing, r	oller hearing	Jo Mari, no.	, 1900, 105	
BSTRACT: This Auth isting of two separ hich inserts of ant nd to permit axial erts have shoulders	or Certificate parate half-separate ifriction material loading, the nest directed to the	resents a split rol ors with nests for al are located. To is are used for the	increase wear roller ends wh	ies between	
houlders are connec n additional featur sparators without t	e has the two dis	ung ring (see Fig.			
하시다 얼마 병생활동 사이가 연					
오늘 사람들이 보고 있다.				5	4



	Calcualting ne	ot income on in 161. (Collect:	collective fa	rms. Vop.	ekon. (MIRA 14:3	)	
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EERKOVSKIY, V.S., inzh.; LOBAREV, M.I., inzh.; KHUDIK, V.T., inzh.; CHIZHIKOVA, I.Yu., inzh.

Wear and the surface finish of cast-iron rolling mill rolls.

Stal' 21 no. 4:340-343 Ap '61. (MIRA 14:4)

1. Zavod "Dneprospetsstal!"

(Rolls (Iron mills)--Testing)

KHUDIK, V.T.; MANUSOV, P.M.

Adjustment of roller boxes. Metallurg 7 no.9:22-24 S '62.

(MIRA 15:9)

1. Rukovodital' gruppy tsentral'noy zavodskoy laboratorii

Dneprovskogo elektrometallurgicheskogo zavoda spetsial'nykh

staley (for Khudik). 2. Starshiy master stana 280 Dneprovskogo
elektrometallurgicheskogo zavoda spetsial'nykh staley (for
Manusov).

(Rolling mills)

KHUDIK, Yu.T.; KHUDIK, V.T.

Effect of the stressed state diagram on the metal quality in metal cutting. Kuz.-shtam. proizv. 7 nc.8:42 Ag '65. (MIRA 18:9)

ROZENGART, Yu.I., dotsent, kand.tekhn.nauk; TAYTS, N.Yu., prof., doktor tekhn.nauk; EPSHTEYN, V.A., inzh.; LITOVCHENKO, Yu.K., inzh.; KHUDIK, V.T., inzh.; MININZON, R.D., inzh.

Study of nonoxidizing heating of alloy steels. Stal 25 no.5:469-473 My 165. (MIRA 18:6)

1. Dnepropetrovskiy metallurgicheskiy institut i zavod "Dneprospetsstal".

ASTSATUROV, V.N.; KHUDIK, V.T.; SHEKHOVTSOV, O.A.; SAAR, P.A.

Device for automatic measurement of the output in thermostat systems of continuous furnaces for rolling mills. Avtom. i prib. no.1:4-7
Ja-Mr '63.

1. Zaporozhskiy filial Instituta avtomatiki Pridneprovskogo soveta narodnogo khozyaystva.

(Furnaces, Heating) (Electronic control)

KHUDIK, Yu.T.; KHUDIK, V.T.

Correcting rombicity in making forgings of square cross sections.

Kuz.-shtam.proizv. 5 no.2:46-47 F \*63. (MIRA 16:2)

(Forging)

KHUDIK, Yu.T.; KHUDIK, V.T.

Peculiarities of making forged pieces with a square cross section. Kuz.-shtam.proizv. 7 no.2:43-44 F 165.

(MIRA 18:4)

BERKOVSKIY, V.S.; VASILEVICH, N.P.; YEFREMENKO, S.Z.; KHUDIK, V.T.

Production of upset strip for the traion suggestion of the "Zaporozhets" automobile. Metallurg 10 no.1;28 Ja '65.

(MIRA 18:4)

1. Zavod "Dneprospetsstal".

KHUDIK, Yakov Grigor'yevich [Khudyk, IA.H.]; KOZIFO, L.U., red.

[Forage beans in the mountain zone] Kormovi boby na verkhovyni. Uzhhorod, Zakarpats'ke obl. knyzhkovo-gazetne vyd-vo, 1963. 23 p. (MIRA 17:12)

KHUDIK, Yakov Grigor'yevich [Khudyk, IA.H.]; KOZIKO, L.U., red.;

LUCHKIV, M.R., tekhn. red.

[Forage beans in the highlands] Kormovi boby na verkhovyni.

Uzhhorod, Zakarpats'ke obl. knyzhkovo-gazetne vyd-vo, 1963.

23 p. (MIPA 17:3)

KHUDIK, Yu.T.; KHUDIK, V.T.

Effect of the stressed state diagram on the metal quality in metal cutting. Kuz.-shtam. proizv. 7 no.8:42 Ag '65. (MIRA 18:9)

KHUDIK, Yu.T.; KHUDIK, V.T.

Peculiarities of making forged pieces with a square cross section. Kuz.-shtam.proizv. 7 no.2:43-44 F 165.

(MIRA 18:4)

Correcting rembicity in making forgings of square cross sections.

Kuz.-shtam.proizv. 5 no.2146-47 P 163. (MIRA 16:2)

(Forging)

AKSENOV, Petr Pavlovich, prof., doktor tekhn. nauk; Prinimali uchastiye: MAKAROVA, N.S., kand. tekhn. nauk; PROKHOROV, I.K., dots.; TYUKINA, Yu.P., dots.; PESOTSKIY, A.N., retsenzent; KHUDIN, A.S., retsenzent; PASKAKOV, Ye.D., otv.

[Technology of lumber] Tekhnologiia pilomaterialov. Moskva, Goslesbumizdat, 1963. 578 p. (MIRA 17:5)

SAKHARNAYA, R.Ya., nauchnyy sotrudnik; NOSOVITSKAYA, N.Ya., dessinator; KHUDIN, A.S.

Manufacture of regular knit goods with cotton machiner. Tekst. prom. 23 no.12:45-47 D 163. (MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut po pererabotke iskusstvennogo i sinteticheskogo volokna (UkrNIIPV) (for Sakharnaya, Nosovitskaya). 2. Nachal'nik kotonnogo tsekha Kiyevskoy trikotazhnoy fabriki No.2 (for Khudin).

KHUDIN, K.S.

KHUDIN, K. S. "The Rational Cutting of Thick Logs Of Carpathian Feech to make Lumber." Min Higher Education USSR. Lenigrad Order of Lenin Forestry Engineering Academy imeni S. M. Kirov. Leningrad, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 18, 1956,

KRUSHEVSKAYA, D.P. [Krushevs'ka, D.P.]; SAKHARNAYA, R.Ya. [Sakharna, R.IA.]; MIGAY, M.M. [Mihai, M.M.]; KHUDIN, O.S.

Manufacture of regular knit outerwear on cotton machines. Leh.prom. no.4:12-15 O-D \*62. (MIRA 16:5)

1. Ukrainskiy nauchno-issledovatel skiy institut po pererabetke iskusstvennogo i sinteticheskogo volokna (for Krushevskaya, Sakharnaya, Migay). 2. Kiyevskaya trikotazhnaya fabrika No.2 (for Khudin).

(Knitting machines)

(MIRA 8:1)

The Shcherbakovskii district of the capital. Gor.khoz.Mosk. 28

no.11:9-11 N '54.

1. Predsedatel i ispolkoma Shcherbukovskogo raysoveta. (Moscow--Building)

NOSOVITSKAYA, N. Ya. [Nosovyts'ka, N.IA.]; SAKHARNAYA, R. Ya. [Sakharna, R. IA.]; KHUDIN, V.D.

Manufacture of outerwear knit goods with openwork pattern on the "Cotton" knitting machines. Lef. prom. no.2:17-19 Ap-Je-164 (MIRA 17:7)

NOSOVITSKAYA, N.Ya. [Nosovyts'ka, N.IA.]; SAKHARNAYA, R.Ya. [Sakharna, R.IA.]; KHUDIN, V.D.

Possibilities of producing fancy fabrics on the Cotton machine for the manufacture of regular dress knit goods. Leh.prom. no.1:38-40 Ja-Mr 164. (MIRA 19:1)

VEDRINTSEV, Kh.V., uchitel\*; POZERN, I.V. (Kostroma); NIKITIN, I., uchitel\*; KHUDIS, R.V., uchitel\*nitsa (selo Nisporeny Moldavskoy SSR)

Letters to the editors. Geog. v shkole 24 no.4:71-73 J1-Ag 61. (MIRA 14:8)

1. Pushkarskaya shkola Lipetskoy oblasti (for Vedrintsev). 2. 5-ya shkola g. Solnechnogorska (for Nikitin).

(Geography--Study and teaching)

# KHUDROVSKIY, A. B.

27789. KHudkovskiy, A. B. -- K voprosv o napravlenii v rekonstrvktsii kllopkovoy promyshlenosti Uzbekistana. Trudy in-ta ekonomiki (Akad. Nauk UzB. SSR). vyp. 2, 1949, S. 64-80

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

DZHAMALOV, O.B., doktor ekon. nauk; VOLOTKO, N.A.; YUN, D.N., kand. ekon. nauk; FOFONOV, B.M., kand. ekon. nauk; KALYAKIN, P.V., kand.ekon. nauk; DESYATCHIKOV, B.A., kand. ekon. nauk; KHUDKOVSKIY, A.B., kand. ekon. nauk; ARTYKOV, A., kand. ekon. nauk; FOKIN, A.I.; UL'MASOV, A., kand. ekon. nauk; YAKOVENKO, Ye., red.; BAKHTIYAROV, A., tekhn. red.

[Principles of the economics of Uzbekistan industry] Osnovy ekonomiki promyshlennosti Uzbekistana; uchebnoe posobie Tashkent, Gosizdat UzSSR, 1963. 282 p. (MIRA 17:1)

KHUDNITSKIY, I.I., insh.

Bucket for transporting hot bitumen mastics. Mekh. stroi. 17 no.11: 26-27 N '60. (MIRA 13:11)

(Bitumen--Transportation)

KHUDNITSKIY, I.I., inzh.

Ball cutter-loaders. Mekh. stroi. 18 no.1:30-31 Ja '61.

1. Novo-Kakhovskiy f-t Odesskogo inzhenerno-stroitel'nogo instituta.
(Loading and unloading)

KRYUKOV, A.I., inzh., KHUDNITSKIY, I.I., inzh.

Organization of waterproofing operations in the construction of the Kakhovka Hydroelectric Power Station. Gidr. stroi. 32 no.12:14-17 D \*61 (MIRA 15:2) (Kakhovka Hydroelectric Power Station-Waterproofing)

KRYUKOV, A.I., kand. tekhn. nauk; KHUDNITSKIY, I.I., inzh.

Mechanized production of waterproofing materials. Makh. stroi. 19 no.2:19-22 F '62. (MIRA 16:7)

(Waterproofing)

KRYUKOV, A.I., kand.tekhn.nauk; GALCCHKIN, Ye.D.; KHUDNITSKIY, I.I.

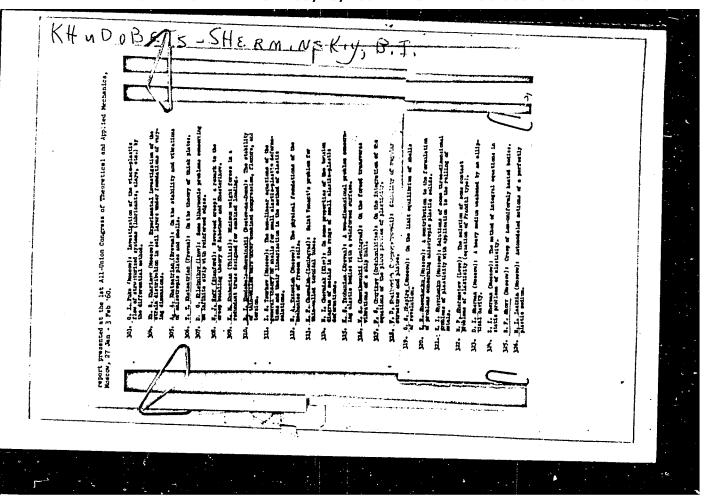
Determining the tractive forces of scrapers. Stroi. 1 dor. mash.
8 no.2:20-22 F '63. (MIRA 16:3)

(Scrapers)

KHUDNITSKIY, N. I., insh.

Electric lighting of the Leningrad Planetarium. Svetotekhnika 6 no.5:17-19 My '60. (MIRA 13:12)

1. Institut "Lemproyekt."
(Leningrad--Planetaria--Lighting)



APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420002-2"

KHUDORETS-SHEREMINSKIY, B.I. (Rostov-na-Donu)

Functioning of thin-walled rods loaded with longitudinal forces. Stroi. mekh. i rasch. soor. 4 no.2:19-20 '62. (MIRA 15:5) (Elastic rods and wires)

KHUDOBETS-SHEREMINSKY, B. I. (Rostov-on-Don)

"The limit method of generalized coordinates in the problems of stability of thin-walled bars".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964.

KHUDOBIN, Aleksandr Ivanovich; KHUDOBIN, Nikolay Ivanovich; PAZEL'SKIY, S.V., redaktor; PETROVA, M.D., tekhnicheskiy redaktor.

[Collection of problems in trigonometry; mammal for teachers]
Sbornik sadach po trigonometrii; posobie dlia uchitelei. Izd.
2-oe. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 207 p. (MIRA 9:5)
(Trigonometry--Problems, exercises, etc.)

KHUDOBIN, Afanasiy Ivanovich, kand. ekonom. nauk; NOSOV, F.V., doktor istor. nauk, red.; ILLYUMINARSKIY, K.L., red.; ONOSHKO, N.G., tekhn. red.

[Great advantages of socialism] Velikie preimushchestva sotsializma. Pod obshchei red. F.V.Nosova. Leningrad, Lenizdat, 1960. 35 p.

(Russia—Economic conditions)

CIA-RDP86-00513R000722420002-2"

**APPROVED FOR RELEASE: 03/13/2001** 

KHUDOBIN, L.V.

Electric Controllers

Electric instrument for the control of the thickness of the rim, and width of the roller groove of inner rings during grinding. Podshipnik no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

- 1. KHUDOBIN, L. V.
- 2. USSR (600)
- 4. Grinding and Polishing
- 7. Automatic machine for polishing the bearing surface of the external rings of ball bearing. Podshipnik no. 10, 52

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

VORONTSOV, A.V.; KHUDOBIN, L.V.

Semi-automat for the insertion of balls into the cage of bicycle bearings.

Podshipnik no.7:27-28 Jl 153.

(MLRA 6:8)

(Ball--Bearings)

KHODOBIN, L. V USSR/Engineering - Machine Tools Card 1/1 Authors Khudobin, L. Vi; and Vorontsov, A. V. Title Automatic Buffing Machine Periodical Stan. i Instr. Ed. 1, 7-9, Jan/1954 Abstract A description of a fully automatic buffing machine, used for polishing inner ball bearing races is given. The machine was designed by A. V. Vorontsov, and according to the author, it is very economical, and 2-3 times as efficient as any known machine. Drawings; Illustrations. Institution Submitted

KHUDOBIN, L. V. Cand Tech Sci -- (diss) "Development and study of new technological possibilities for cylinder-and-cone grinding machine "." Mos, 1957. with diagrams.

19 ppy (Min of Higher Education USSR. Mos Machine Tool and Instrument Inst im I. V. Stalin. Chair of "Technology of Machine Building"), 110 copies (KL, 44-57, 100)

-25-

AUTHOR: Khudobin, L.V.

TITLE: Improvement in the accuracy of small displacements (povy-sheniye tochnosti malykh peremeshcheniy) 121-2-2/20

PERIODICAL: "Stanki i Instrument" (Machine Tools and Tools), 1957, No.2, pp. 10 - 13 (U.S.S.R.)

ABSTRACT: Referring to Elyasberg M.E. (Raschet Mekhanizmov Podachi Metallorezhushchikh Stankov na Plavnost i Chuvstivitel' nost' peremeshcheniya (O Razryvnykh Kolebaniyakh pri Trenii) Stanki i Instrument, Nos. 11/12, 1951), and Pusa, V.E. (Voprosy dinamiki Privoda Stankov. Doctor's Thesis, Moscow, 1956) and Deryagin et al (Teoriya Skol'zheniya Tverdykh Tel s Periodicheskimi Ostanovkami, Zhurnal Tekhnicheskoy Fiziki, No.6, 1956) the physical nature and mathematical relations of the phenomenon of relaxation oscillations in mechanical systems and the causes of inaccuracy and non-uniformity of small displacements are thought to be understood. A setting-up error is equal to the difference between the "static" and "dynamic" friction forces divided by the stiffness of the setting-up (feed) transmission. Methods used to reduce the difference in the friction force include the introduction of rolling friction, the replacement of cast iron in the guiding surfaces by other materials, preferably plastics, the superimposition of oscillations, the

Improvement in the accuracy of small displacements (Cont.)
121-2-2/20 unloading of the guiding surfaces with the help of special carriages with spring-supported rollers and other methods. elimination of clearances is the object of a number of mechanisms used in machine tools. All these methods have some disadvantages, due mainly to an increase in the wear of the guiding surfaces. Experimental work carried out at the production laboratory of the "Mosstankin" plant is described whose aim it was to produce guiding surfaces ensuring fluid friction and to incorporate a hydraulic device eliminating clearances in the feed mechanism. The tests were carried out on a cylindrical grinding machine and are reported here in a series of graphs showing the scatter of setting-up displacements plotted against the nominal adjustment of the machine. The results of the elimination of clearances in the feed mechanism by means of weights and by means of a hydraulic loading device, shown diagrammatically, and specially constructed for the purpose of these tests have yielded equal improvements. A nominal adjustment of 50  $\mu$  is associated with scatter of about 42  $\mu$  before and about 8  $\mu$  after the elimination of clearances. A hydraulic system was then introduced which yielded a pressure feed of lubricant to the guiding surfaces through longitudinal grooves. 2/3 It was shown by tests that having created along the whole

Improvement in the accuracy of small displacements. (Cont.) length of contact, an oil layer of 0.02 mm thickness, the grinding wheel carriage weighing 650 kg could be moved by a force below 1 kg (friction coefficient of about 0.001). With this type of friction no measurable scatter remained and wear of the guiding surfaces could not be detected.

-There are 8 figures, including 2 photographs and 5 graphs, 5 tables and 5 Slavic references.

AVAILABLE: 3/3

MHUUUGELY, L. V. CHARNKO, D.V .: KHUDOBIN, L.V. Increasing the efficiency of grinding. Stan.i instr. 28 no.4:11-13 (MLRA 10:5) (Grinding and polishing)

(MIRA 10:9)

KHUDOBIN, L.V., inzh.; YORONTSOV, A.V. Continuous automatic grinding machines. West. mash. 37 no.8:36-38 Ag 157.

(Grinding machines)

CIA-RDP86-00513R000722420002-2" APPROVED FOR RELEASE: 03/13/2001

KHUDOBIN, L.V.; FRAGIN, I.Ye.

Analyzing operating cycles of automatic cylindrical grinding machines. Nauch.dokl.vys.shkoly; mash.i prib. no.4:134-143 [58. (MIRA 12:5)

1. Stat'ya predstavlena kafedroy "Tekhnologiya mashinostroyeniya" Moskovskogo stankoinstrumental'nogo instituta.
(Grinding machines)

KHU DOBING L.V.

AUTHOR: Khudobin, L. V.

121-4-2/32

TITIE:

Automatic Regulating of the Radial Pressure in Grinding (Avtomaticheskoye upravleniye radial'nym usiliyem

shlifovaniya)

PERIODICAL: Stanki i Instrument, 1958,  $\bar{4}$  No.4, pp. 6 - 9 (USSR).

ABSTRACT: An installation for automatically maintaining a pre-set radial force between the grinding wheel and the workpiece in cylindrical grinding has been designed, made and tested in the production laboratory of the Moscow Machine Tool Institute (Moskovskiy stankoinstrumental'nyy institut). The control of radial pressure can be accomplished by the variation of either the longitudinal rate of feed or the depth of cut, or the surface speed of the workpiece, without a clear advantage in favour of any one system. Automatic regulating helps the attainment of the highest rate of metal removal without (a) burning the surface, (b) tool chatter. In doing so, it is necessary to reduce gradually e.g. the longitudinal rate of feed. When this drops below a pre-determined value, dressing of the grinding wheel becomes necessary. The cycle of operations in the system embodied by the Institute consists of four stages. In the first stage, the operator loads the workpiece, starts its Cardl/jotation and the longitudinal reciprocating feed motion of the

121-4-2/32

Automatic Regulating of the Radial Pressure in Grinding

table, initiates the rapid approach of the grinding wheel to the workpiece and engages the automatic transverse feed, plunging the wheel into the workpiece. The transverse advance ceases when the radial force reaches a pre-determined value. The second stage is the steady grinding process whilst the radial pressure is automatically maintained at its maximum permissible value. This stage is completed on receiving a signal from the continuous gauging device that the grinding wheel has reached the required depth. This signal automatically disengages the transverse feed. Simultaneously, the automatic regulating system for the radial pressure is disconnected. The third stage is the running out of the grinding wheel. It is completed by a signal from the automatic gauging device which measures the final size of the workpiece. The grinding wheel spindle is rapidly withdrawn and the rotation of the workpiece and longitudinal motion of the table are simultaneously stopped. The fourth stage is the unloading of the workpiece from the machine. In the installation selected, the radial pressure is held constant by varying the speed of rotation of the workpiece. A block diagram of the automatic regulating system and a diagram of the Card2/5

Automatic Regulating of the Radial Pressure in Grinding

between 0 and 340 rpm are reproduced. The longitudinal table speed is held proportional to the rotational speed of the component by a special mechanism, shown in a photo and described. The continuous gauging device has been described earlier ("Increase of Output in Grinding" in Stanki i Instrument, 1957, No.4). The circuit diagrams of the control circuits are reproduced. Examples show that the reduced machine time due to the new type of grinding force control gives a considerable and unloading.

There are 9 figures, including 2 photographs.

AVAILABLE:

Library of Congress

Card 3/3

1. Machine tools (Automatic) 2. Machine tools-Operation

KHUDOBIN, L.V., kand. tekhn. nauk; POPOV, A.T., ved. red.; TOLMACHEV, V.B., inzh., red.; SHVETSOV, G.V., tekhn. red.

[Abrasive finishing of metals; abstracts] Abrazivnaia obrabotka metallov; referativnyi sbornik. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 43 p. (Peredovoi nauchnotekhnicheskii i proizvodstvennyi opyt. Tema 10. No.M-58-394/51)

(MIRA 16:2)

(Grinding and polishing-Abstracts)

Profilograph for grinding wheels. Izm. tekh. no.1:17-13 Ja \*64.

(MIR4 17:11)

KHUDOBIN, Aleksandr Ivanovich; KHUDOBIN, Nikolay Ivanovich; PAZEL'SKIY, S.V., redaktor; PETROVA, M.D., tekhnicheskiy redaktor.

[Collection of problems in trigonometry; manual for teachers]
Sbornik zadach po trigonometrii; posobie dlia uchitelei. Izd.
2-oe. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 207 p. (MLRA 9:5)
(Trigonometry--Problems, exercises, etc.)

AUTHOR &

Khudobin, V.

SOV-107-58-4-43/57

TITLE:

The 43LK2B Kinescope in the "Temp" and "Temp 2" Televisors (Kineskop 43LK2B v televizorakh "Temp" i "Temp-2")

PERIODICAL:

Radio, 1958, Nr 4, p 47 (USSR)

ABSTRACT:

The author describes the method of fitting the kinescepe into the "Temp" and "Temp-2" receivers and deals with such problems as voltage supply and adjustment, alignment and

tuning.

There is 1 circuit diagram and 1 diagram.

1. Iconoscopes--Installation 2. Television receivers--Equipment

Card 1/1

KANE, A.M.; KULESHA, K.K.; MAKSIMOV, I.O.; ROZANOV, P.A.; KHUDOBIH, V.M., redaktor; KANDYKIN, A.Ye., tekhnicheskiy redaktor

[Assembly-line method of repairing freight cars; work practice of the Leningrad shunting Moscow Station of the October line] Potochnyi metod remonta gruzovykh vagonov; opyt raboty vagonogo depo stantsii Leningrad-sortirovochnyi Moskovskii Oktiabriskoi dorogi. Moskva, Gos. transp. zhel-dor.izd-vo, 1955. 66 p.

(MLRA 9:2)

(Railroads--Cars--Maintenance and reapir)

KHUDOBIN, V.M., inzhener; YUDZON, D.M., tekhnicheskiy redakter.

[Wide gage railroad cars of the U.S.S.R.; brief mammal] Vagony shire-koi kolei zheleznykh dorog SSSR; kratkii spravochnik. Meskva, Gos. transportnoe zheleznodorozhnoe izd-vo, 1955. 156 p. (MIRA 8:4)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. Glavneye upravleniye vagonnogo khoziaystva.

(Railroads-vars)

# KHUDOBIN, Yu.I.

Case of open complicated fracture of the pelvis. Khirurgiia 35 no. 5:117 My 159. (MIPA 13:10)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopediir (dir. - nauchnyy rukovoditel' instituta chlen-korrespondent AMN SSSR zasluzhennyy deyatel' nauki prof. F.R. Bogdanov.

(PELVIS-FRACTURE)

· KHUDOBIN, YU.I.

USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4470

Author

: Voronkov, M.G., Khudobin, Yu.I.

Inst

: Academy of Sciences USSR - Incl Solicate Chem.

Title

: Reaction of Hexaalkyl-Disiloxanes with Iodine and

Aluminum

Orig Pub

: Izv. AN SSSR, Otd. khim. n., 1956, No 6, 713-714

Abstract

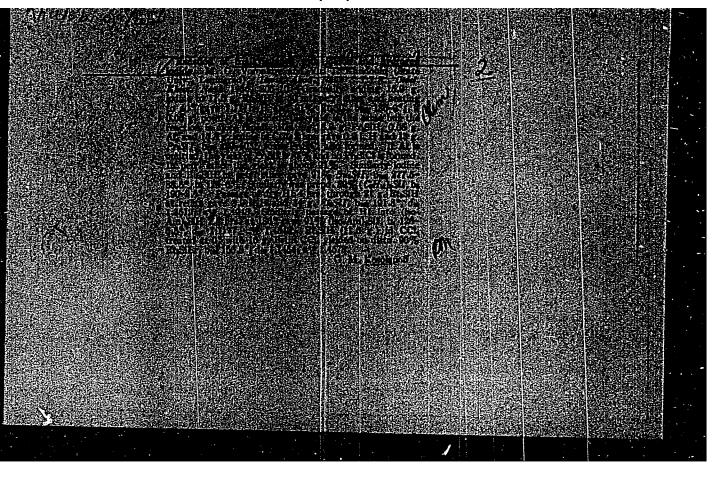
: Trialkyl-iodosilanes (I) are readily formed on boiling hexaalkyl disiloxanes with Al and iodine, taken at the molar ratios 1:1.1:1.5. until the color of iodine is discharged, and subsequent distillation of the reaction mixture in a current of N<sub>2</sub> in diffused light. Below are listed the alkyl, yield of I in %, BP in  $^{\circ}$ C  $\pm$  0  $^{\circ}$ O/mm, and dgo 0.001: CH<sub>3</sub>, 93, То7.5/760, 1.422; С<sub>2</sub>Н<sub>5</sub>, 89,

191.2/760, 1.351;  $n - C_3H_7$ , 88, 238/760, 1.229;  $n - C_hH_9$ ,

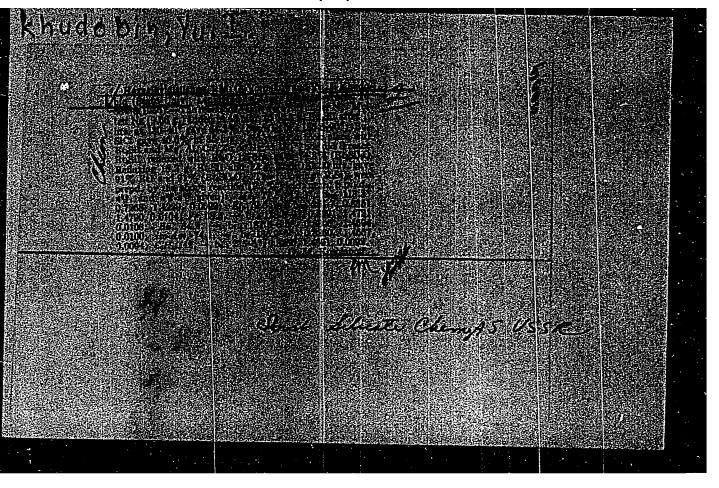
Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420002-2



"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420002-2



KHUDEBIN, Ya. I.

AUTHORS:

Dolgov, B. N., Khudobin, Yu. I., Kharitonov, N. I. 62-1-25/29

TITLE:

The Reactions of the Catalytic Dehydrocondensation of the Trialkyl-, Triarylsilanes With Oxy-, Oxo-, and Polyoxyorganic Compounds (Reaktsii kataliticheskoy degidrokondensatsii trialkil-, triarilsilanov s oksi-, okso- i polioksiorganicheskimi soyedineniyami)

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1958 Nr 1, pp. 113 - 115 (USSR)

In literature there are reports about the possibility of the condensation of the trialkylsilanes with monoatomic alcohols and amines under the action of small quantities of alkaline metals. This is also the case with monocarboxylic acids under the action of a mixture of iodine and aluminum. A general catalytic method for the production of trialkyl-trialylsilyl-derivatives of organic oxy-, oxo-, andpolyoxycompounds was worked out by the authors. The metallic halides of Ni, Co, Cr, Ge, Zn, and Sn turned out to be the best catalysts of these reactions. Synthetized were with a yield of up to 95% theoretically 18 trialkylsilyl-derivatives of oxy-, oxo-, andpolyoxycompounds, and their physical-chemical properties were determined (see table). Furthermore it was found that a series of trialkyl-

Card 1/2

The Reactions of the Catalytic Dehydrocondensation of the Tri- 62-1-25/29 alkyl-, Triarylsilanes With Oxy-, Oxo-, and Polyoxyorganic Compounds

-triarylsilyl-derivatives of the organic oxy- and polyoxy-compounds freeze below -50° and ball at 500° (760 mm) without decomposing. These compounds can be used as heat carriers. There are 1 table, and 4 references, 3 of which are Slavic.

ASSOCIATION:

Institute of Silicate Chemistry of AS USSR (Institut

khimii silikatov Akademii nauk SSSR)

SUBMITTED:

July 30, 1957

AVAILABLE:

Library of Congress

Metal halides-Catalytic properties
 Silenes-Condensation reactions
 Organic compounds-Condensation reactions

4. Silanes-Catalysis

Card 2/2

AUTHORS:

Dolgov, B. N., Kharitonov, N. P.,

SOV/79-28-10-17/60

Glushkova, N. Ye., Khudobin, Yu. I.

TITLE:

Catalytic Dehydro Condensation of the Trialkyl Silanes

With Alcohols in the Presence of Metal Chlorides

(Kataliticheskaya degidrokondensatsiya trialkilsilanov so

spirtami v prisutstvii khloridov metallov)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2710-2713,

(USSR)

ABSTRACT:

The authors continued their investigations of the previous paper on the catalytic dehydro condensation of the abovementioned silanes with oxy, oxo and polyoxy-organic compounds. Earlier they used alkali alcoholates as catalysts for this condensation of R<sub>3</sub>SiH with alcohols (yields 80-90 %). In the present paper moreover some small additions of various metal chlorides are used, of which ZnCl<sub>2</sub> and SnCl<sub>2</sub> proved to be the most active. The reaction velocity of R<sub>3</sub>SiH with alcohols depends on the nature and the quantity of metal chlorides. The

increase of the amount of chlorides from 0,05 to 1 gr. leads to the increase of the reaction velocity, whereas the further addition has no more influence. The reactions of methanol with

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Catalytic Dehydro Condensation of the Trialkyl Silanes SOV/79-28-10-17/60 With Alcohols in the Presence of Metal Chlorides

triethyl silane at a ratio of 2:1 (Table 1) prove this. The increase in length of the alkyl radicals from CH<sub>3</sub> to n.-C<sub>4</sub>H<sub>9</sub> in alcohols of normal structure decreases the reaction velocity (Table 2, Experiments 1-3, 5). The difficulties in the spatial arrangement in the case of the presence of radicals of the isostructure considerably decrease the reaction velocity (Table 2). The structure of the trialkyl silane exerts an important influence on the reaction velocity (Table 3). 13 trialkyl alkoxy silanes, 7 of which are new, were synthesized. The physical properties of the newly synthesized trialkylalkoxy silanes are given in table 4. The method described is of general character for the alkoxylation of the Si-H bond, and makes it possible to obtain the trialkylalkoxy silanes in pure state. No side products are formed. There are 5 tables and 4 references, 2 of which are Soviet.

ASSOCIATION:

Institut khimii silikatov Akademii nauk SSSR (Institute of the Chemistry of Silicates of the Academy of Sciences, USSR)

Card 2/3

AUTHORS:

Dolgov, B. N., Khudobin, Yu. I.,

507/20-122-4-18/57

Kharitonov, N. P.

TITLE:

A New Synthesis Method of the Tris(Trialkyl(Aryl)Silyl)Borates

(Novyy metod sinteza tris(trialkil(aril)silil)boratov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 4, pp 607-608

(USSR)

ABSTRACT:

Only imperfect data on the production of the organosilicon esters of the boric acid have hitherto appeared in literature (Refs 1-4). In the present paper the authors carry on their investigations concerning the dehydro-condensation of the trialkyl(aryl)silanes with organic molecules containing oxy-, oxo-, and polyoxy-groups. The authors reported earlier (Refs 5, 6) on an even reaction course of the last mentioned compounds with oxy-, carboxy-, and polyoxyorganic compounds in the presence of catalysts of non-alkaline nature. The trialkyl(aryl)silanes can be dehydrocondensated with the boric acid without formation of by-products in the presence of small additions(0,01 - 1%) of anhydrous halides of cobalt, nickel,

palladium, or platinum: the borates mentioned in the title are produced with a yield of 90 - 95%. The reaction is caused by heating a mixture of the initial components at 100 - 1300 and is

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A New Synthesis Method of the Tris(Trialkyl(Aryl)Silyl)Borates

507/20-122-4-18/57

easily controlled by the velocity and the quantity of the escaping hydrogen. The borates obtained have a high degree of purity. They are colorless liquids with a particular smell, which can be distilled without decomposition. They are hydrolyzed easily by water and diluted—alkalis as well as acids. Table 1 gives the physical constants, yields, and analysis results of these substances. There are 1 table and 7 references, 4 of which are Soviet.

ASSOCIATION: Institut khimii silikatov Akademii nauk SSSR (Institute of Silicate Chemistry of the Academy of Sciences, USSR)

PRESENTED: May 30, 1958, by A. V. Topchiyev, Academician

SUBMITTED: May 29, 1958

Card 2/2

5 (3) AUTHORS:

Dolgov, B. N., Khudobin, Yu. I.,

sov/62-59-7-13/38

Kharitonov, N. P.

TITLE:

Interaction Between Trialkyl-silanes and Phenol in the Presence of Metal Halides ( Vzaimodeystviye trialkilsilanov s

fenolom v prisutstvii galogenidov metallov)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 7, pp 1238 - 1243 (USSR)

ABSTRACT:

The present paper deals with the possibility of replacing the hydrogen atom bound to silicon in the trialkyl-silanes by a phenoxy group in the presence of metal halides. R<sub>z</sub>SiH +

+ MOC<sub>6</sub>H<sub>5</sub> → R<sub>3</sub>SiCC<sub>6</sub>H<sub>5</sub> + H<sub>2</sub>. Furthermore, the influence of the structure of the trialkyl-silanes on the reaction velocity was investigated. The reaction proceeds already under inconsiderable additions of metal halides and leads to the production of trialkyl-phenoxysilane. This reaction does not take place if the catalyst is missing and in the presence of metallic potassium. The experimental data are given in table 1. The following rules governing the reaction course were obtained from these data: the halides of Cr, Co, Ni, Ge, Zn, Sn, and Hg

Card 1/2

Interaction Between Trialkyl-silanes and Phenol in SOV/62-59-7-13/38 the Presence of Metal Halides

turned out to be the best catalysts. The reaction velocity increased with rising halogen ion radius. The quantity of the used catalyst exercised also a considerable influence on the reaction velocity. Data on the reaction course with alkylene of different structure in the presence of nickel chloride resulted (Table 2) that the reaction velocity increases as well with rising boiling point of the trialkyl-silanes. Trialkyl-silanes with different radicals react more quickly than those with uniform radicals, even more slowly those with branched radicals. The trialkyl-silanes which may be obtained by the described method are very pure. 16 trialkyl-silanes were synthesized, 13 of which have hitherto not been known. The syntheses are described in the experimental part. There are 1 table and 8 references, 5 of which are Soviet.

ASSOCIATION:

Institut khimii silikatov Akademii nauk SSSR (Institute of the Chemistry of Silicates of the Academy of Sciences, USSR)

SUBMITTED:

September 12, 1957

Card 2/2

£ 5.4600

67127 SOV/143-59-11-8/19

AUTHORS:

Dolgov, B.N., Professor, Doctor of Technical Sciences; Kharitonov, N.P., Candidate of Technical Sciences; Khudobin, Yu.I., Engineer; Renne, V.T., Prof., Postor of Technical Sciences; and Soya, G.P., Engineer

TITLE:

Research on the Electric Properties of Some Silico-

Organic Liquids

Izvestiya vysshikh uchebnykh zavedeniy, Energetika, PERIODICAL:

1959, Nr 11, pp 59-66 (USSR)

ABSTRACT:

This is a report on the experiments carried out by the authors to ascertain the electric properties of some silicone fluids which are potential impregnating or sealing dielectrics. Silicone fluids are rarely used in the USSR, although liquid dielectrics are required for many types of electric equipment. The fluids, examined by the authors, are considerably different in their chemical composition from polymethyl- or polyethyl-siloxanes,7 especially by the presence of a

Card 1/4

67127 SOV/143-59-11-8/19 Research on the Electric Properties of Some Silico-Organic Liquids central benzole ring in the molecule. The tested liquids are designated as "Nr 2", "Nr 243" and "Nr 529". They were synthetically produced by the Institute of the Chemistry of Silicates at the AS USSR and tested at the Leningrad Polytechnic Institute imeni M.I. Kalinin. Their physical properties are listed in Molo Kalinin. Their physical properties are insecting the sub-Table 1. Table 2 shows electric properties of the sub-ject liquids plus "Kaloriya-2" liquid, at room temperature. The evaporability of the examined liquids, plus "Kaloriya-2" and vaseline oil, at 150°C is shown in Table 3. Table 4 shows electric characteristics of different liquids used for the impregnation of experimental capacitors. (Tested were: "Nr 529", "MN-3" oil, and vaseline oil.) The characteristics of the experimental capacitors impregracteristics of the experimental capacitors impregrated with the same liquids are shown in Table 5. Table 6 shows the changes of the characteristics of experimental capacitors during the process of aging (up to 200 hours). The devices used in the tests Card 2/4

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SOV/143-59-11-8/19 Research on the Electric Properties of Some Silico-Organic Liquids

were: "MDP" bridge with an "M501" vibrational galvanometer and an "F50-1" amplifier - for measuring the specific inductive capacitance and loss angle at 50-cycle frequency and 1 kv voltage; at 400 to 5,000-cycle frequency, an "MLYe-1" bridge with a "ZG-4" sound generator and an "ELUR-3" indicator were employed; at frequencies up to 0.7 megacycles, the "KV-1" Qmeter was applied. The authors conclude that all three new silico-organic liquid dielectrics deserve to be thoroughly examined. In particular, "Nr 529" liquid must be paid attention to. Its main characteristics are: specific inductive capacitance at 20°C: 3.05; the tangent of the loss angle at 20°C: 0.0002; specific resistance at 150°C: 1.10 ohm.cm; evaporation loss after 64 hours at 150°C: 1.21 %. There are 6 tables, 9 graphs, and 3 references, 2 of which are

Card 3/4

67127

Research on the Electric Properties of Some Silico-Organic Liquids

English, 1 Soviet.

ASSOCIATION: Institut khimii silikatov AN SSSR (Institute of the Chemistry of Silicates at the AS U3SR) (Dolgov, Kharitonov, Khudobin); Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina (Leningrad Polytechnic Institute imeni M.I. Kalinin) (Renne, Soya)

SUBMITTED: July 21, 1959

Card 4/4

CIA-RDP86-00513R000722420002-2" APPROVED FOR RELEASE: 03/13/2001

S/661/61/000/006/031/081 D205/D302

AUTHORS: Kharitonov, N. P., Dolgov, B. N. and Khudobin, Yu. I.

TITLE: Catalytic dehydrocondensation of trialkyl silanes with

ketones

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh soyedineniy; trudy konferentsii. no. 6: Doklady,

diskussi, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len., 1958. Leningrad, Izd-vo

AN SSSR, 1961, 153-154

TEXT: A discussion in which G. I. Nikishin (IOKh AN SSSR, Moscow), I. A. Shikhiyev (Baku), I. M. Rubintchik (VNIIZhT, Moscow), Yu. K. Yur'yev (MGU) and V. A. Ponomarenko (IOKh AN SSSR, Moscow) took part. N. P. Kharitonov replid. The subject of the discussion was the practical use of the above reaction products. V. A. Ponomarenko the practical use of the above reaction products are of no practical vasaid that at the present time the products are of no practical vasaid that at the present time the reaction wing called dehydrolue. Yu. K. Yur'yev objected to the reaction wing called dehydrocondensation, this name being reserved for reactions in which a

Card 1/2

Catalytic dehydrocondensation of ...

S/661/61/000/006/031/081 D205/D302

C-C bond is formed as the result of hydrogen removal. The authors revealed that they have prepared interaction products of  $(c_2H_5)_3$ SiH,  $(\underline{n}-c_3H_7)$ SiH,  $(\underline{n}-c_4H_9)_3$ SiH,  $(c_2H_5)_2$ SiH,  $(c_2H_5)_2$ SiH,  $(c_2H_5)_2$ SiH,  $(c_2H_5)_2$ SiH, and other silanes with acetone, methyl ethyl ketone, acetophenone, di-n-prophenone etc. The degree of enolization of the ketone has an interaction on the reaction rate. The higher the degree of enolization, in continuation of the present work.

ASSOCIATION: Institut khimii silikatov, AN SSSR, Leningrad (Institute of Silicate Chemistry of the AS USSR, Leningrad)

Card 2/2'

S/661/61/000/006/032/081 D205/D302

AUTHORS: Khudobin, Yu. I., Dolgov, B. N. and Kharitonov, N. P.

TITLE: Dehydrocondensation of trialkyl(aryl)silanes with hydro-

xyl-containing organic compounds

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh soyedineniy; trudy konferentsii. no. 6: Doklady,

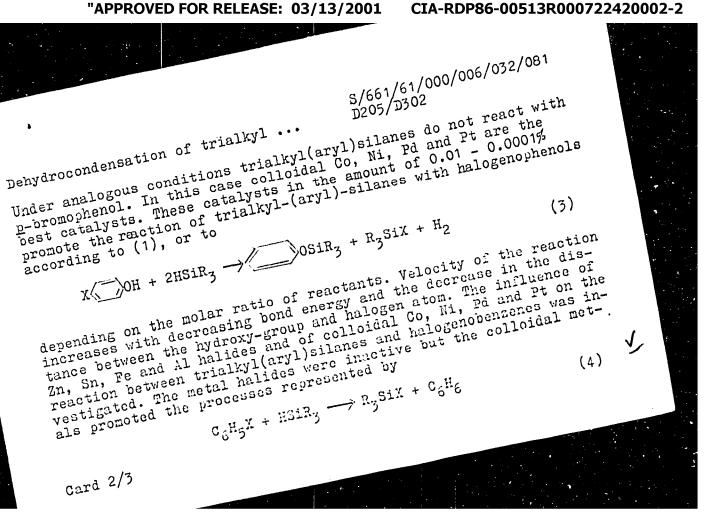
diskussii, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len., 1958. Leningrad, Izd-vo

AN SSSR, 1961, 155-158

TEXT: Trialkyl(aryl)silanes interact with <u>p</u>-chlorophenol and <u>o</u>-bromophenol in the presence of Zn, Sn, Fe and Al halides giving 95% yields according to

$$X \longrightarrow OH + HsIR_3 \rightarrow X \longrightarrow OSiR_3 + H_2$$
 (1)

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Dehydrocondensation of trialkyl...

S/661/61/000/006/032/081 D205/D302

$$xc_6H_4X + HSiR_3 \longrightarrow R_3SiX + C_6H_5X$$
 (5)

$$XC_6H_4X + 2HSiR_3 \longrightarrow 2R_3SiX + C_6H_6$$
 (6)

The reaction velocity increases with the decrease of the bond (C-X) energy. The reactions with dihalogenobenzenes were analogous and the same may be said of c(-bromonaphthalene and 9,10-dibromoanthracene. P. V. Davydov (Moscow), V. A. Ponomarenko, R. Kh. Freydlina (INEOS AN SSSR, Moscow) and M. G. Voronkov (IKhS AN SSSR, Leningrad) took part in the discussion which followed. The opinion of all the participants was that the use of catalysts in the reaction, and in particular of the colloidal metals of the VIII group of the periodic table is of great practical importance. There are 3 tables.

ASSOCIATION: Institut khimii silikatov, AN SSSR, Leningrad (Institute of Silicate Chemistry of the AS USSR, Leningrad)

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S/143/62/000/006/003/008 D238/D308

AUTHORS:

Dolgov, B. N. (deceased), Doctor of Chemical Sciences, Khudobin, Yu. I., Professor, Engineer, Kharitonov, N. P., Candidate of Chemical Sciences, Renne, V. T., Doctor of Technical Sciences, Bondarenko, P. N. and Soya, G. P., Engineers

TITLE:

The influence of composition and structure of the molecules of some liquid silicones on their electrical properties

PERIODICAL:

Izvestiya vysshikh uchebnykh zavendeniy. Energetika, no. 6, 1962, 31-36

TEXT: A study of bi- and tri-(trialkylciloxy)benzoles of different composition and structure indicates that molecular structure has a marked influence on the specific inductive capacitance, the highest value being obtained from the meta, a medium value for the para- and the smalles for the ortho condition. For a given dipolar moment it can be expected that a higher molecular weight would Card 1/3

The influence of ...

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result in a lower specific inductive capacitance and this was observed, but above molecular weight 450, the reduction in specific inductive capacitance ceases and even rises slightly, due to the rise in the dipole moment of the molecules. Increase of molecular weight is accompanied by a sharp drop in the loss angle and an increase in the resistivity. Improved electrical performance is obtained by employing liquid with a high molecular weight and with the meta-condition of the siloxy group. However, the high molecular weight leads to a higher viscosity, which can act adversely with regard to frost resistance when used in condensers. The data, however, indicate the possibility of obtaining a liquid dielectric having good dielectric properties with a freezing temperature not higher than -60°C, having a satisfactory viscosity and with a high boiling point, exceeding 300°C at normal pressure and 200°C at a higher pressure corresponding to wireless condenser impregnation. There are 3 tables and 5 figures.

ASSOCIATION: Institut khimii silikatov AN SSSR (Institute of Silicate Chemistry, AS USSR) (B. N. Dolgov, Yu. I. Khudo-

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The influence of ...

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SUBMITTED: April 6, 1961

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NEFEDOV, V.D.; KHARITONOV, N.P.; LI DE-FU [Li Tieh-fu]; GUSEV, Yu.K.; SKOROBOGATOV, G.A.; SMIRNOV-AVERIN, A.P.; SEVAST YANOV, Yu.G.; KHUDOBIN, Yu.I.

Tritiation of organosilicon compounds by the method of rebounding tritium atoms. Zhur.ob.khim. 32 no.2:614-618 F '62. (MIRA 15:2)

1. Institut khimii silikatov AN SSSR i Leningradskiy gosudarstvennyy universitet.

(Silicon organic compounds)
(Tritium)

DOLGOV, B.N.; VINTER, G.; KOMAROV, V.A.; KHARITONOV, N.P.;
KHUDOBIN, Yu.I.

Interaction between pentagrythritol and trialkyl silanes in the presence of some metal halides. Izv. AN SSSR. Ser. khim. no.12:2146-2152 D '63. (MIRA 17:1)

1. Institut khimii silikatov im. I.V. Grebenshchikova AN SSSR i Leningradskiy gosudarstvennyy universitet.

KHARITONOV, N.P.; KONSTANTINOVA, G.T.; KHUDOBIN, Yu.I.; KOMAROV, V.A.

Catalytic reaction of trialkyl (aryl) silanes with allyl alcohol.

Izv. AN SSSR Ser.khim. no.10:1749-1756 0 '63. (MIRA 17:3)

1. Institut khimii silikatov im. I.V.Grebenshchikova AN SSSR.

KOMAROV, V.A.; PLATONOVA, V.I.; RODIMENKOVA, N.A.; KHARITONOV, N.P.;

Effect of alcohol structure and solvent composition on the kinetics of the alkaline solvolysis of trialkylsilanes.

Zhur. fiz. khim. 38 no.9:2139-2144 S '64. (MIRA 17:12)

1. Institut khimii silikatov imeni Grebenshchikova AN SSSR,

KARZHEVA, L.V.; PUZYREV, N.N.; Prinimali uchastiye: VINOGRADOV, F.V.;
BRODOV, L.Yu.; LANTSOV, I.A.; KHUDORIMA, L.N.; BAKHAREVSKAYA, T.M.

Experimental study of head transverse waves.

1 geofiz. Sib. otd.AN SSSR no.16:64-94 '62.

(Seismic waves)

(MIRA 16:5)

PUZYREV, N.N.; KHUDOBINA, L.N.

Survey of experimental studies and some theoretical statements on the study of transverse and transformed waves. Trudy Inst. geol. i geofiz. Sib. otd.AN SSSR no.16:7-23 '62. (MIRA 16:9) (Seismic waves)